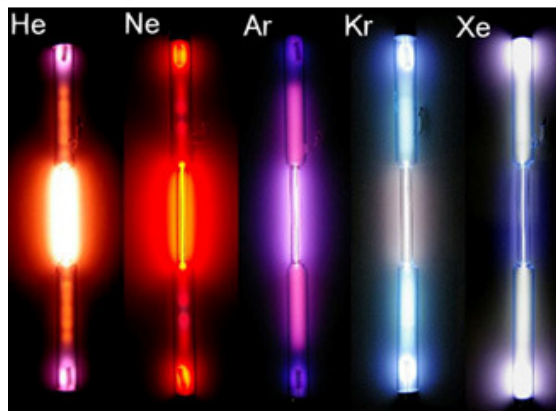


## Sound Energy Research



### Voice Analysis Hydration System



**We use all 5 in 1 gases in the VAHS Cube**

VAHS Software 10 24 2010

### Laptop Computers require power adjustments

All computer systems will require adjustments to their audio output and microphone levels. These must be adjusted to higher levels before using the VAHS system. Once the audio output and microphone have been adjusted then use the same procedures stated above to adjust the operating levels when attached to your computer.

Please remember to go to your computer CONTROL PANNEL and change the default power to maximum. You do not want your computer to go into hibernation or sleep mode while operating the VAHS software.

Sometimes, there are difficulties with laptop units due to the constraints of the hardware/operating system required for mobility. Basic entry level laptops are not a replacement for desk top systems. They are subject to heat restraints forcing them to use cooler running chip sets, CD burners and usually lesser quality audio and graphics cards. If you are considering purchasing any computer and especially a laptop, please buy the best you can afford not the special sale item. Look for quality CD burners and high end gaming audio and graphic cards.

Any high end laboratory software program like our Voice Analysis Hydration System (VAHS) is math driven and utilizes high number crunching. High end chips sets like P4's etc work best.

### CD burning and other possible problems

**Here are the steps the user should take to select their cd drive in Windows7 / Vista**

Make sure the CD is placed in the burner before starting the VAHS program

1. On the dialog where it is requested they select the cd drive.
2. Click on the down arrow of the combo box.
3. Press the down-arrow key twice.
4. Press the enter key.
5. Click on the OK button.

Everything should proceed normally then. This changed because of a change in the way Windows does it's drawing on the screen and an interaction with DevExpress controls. We used the controls to give us a more stylish look and feel on WindowsXP but that is not required for Windows7 or Vista. The burning still works fine, it is only the way the combo box draws on the screen ... the part that drops

down when you click the arrow button is painted under the rest of the form for some reason. This is a bug in DevExpress that only shows up occasionally and they have no intention of fixing it.

### There can only be a couple of problems when you click on the burner and the drop down menu is blank.

1. You did not put a CD-R in the CD drive before starting the program so the burner is not recognized.
2. A common problem is not using a proper or quality CD-R. We have customer pre-labeled, blank, high quality empowerment CD-R's available on vahsworld.com
3. Your CD burner needs to be adjusted, drawer problem or the CD-R is not being inserted properly in the drawer, the "Photo Eye" needs to be cleaned.
4. Your CD burner driver needs to be updated. Go on-line and check for newer drivers for your CD burner and controller.

Note: CD burners on laptops have light flimsy drawers and have always been a source of problems. Many computer manufactures have been known to install many different models in production runs due to supply and demand.

Be sure to plug in the laptop and change the power mode to maximum power when using the Voice Analysis Hydration System. There have been reports where the laptop has gone into the hibernation mode while burning a CD. You want to make sure the power system remains constant and the laptop remains on during the complete session.

Make sure the computer has a minimum of 512MB of Ram or more and at least 2 gig for Vista. Select the best internal sound system and CD burner possible.

Our software uses the burning features built into the Microsoft WindowsXP and Vista operating system and has been extensively tested on multiple configurations.

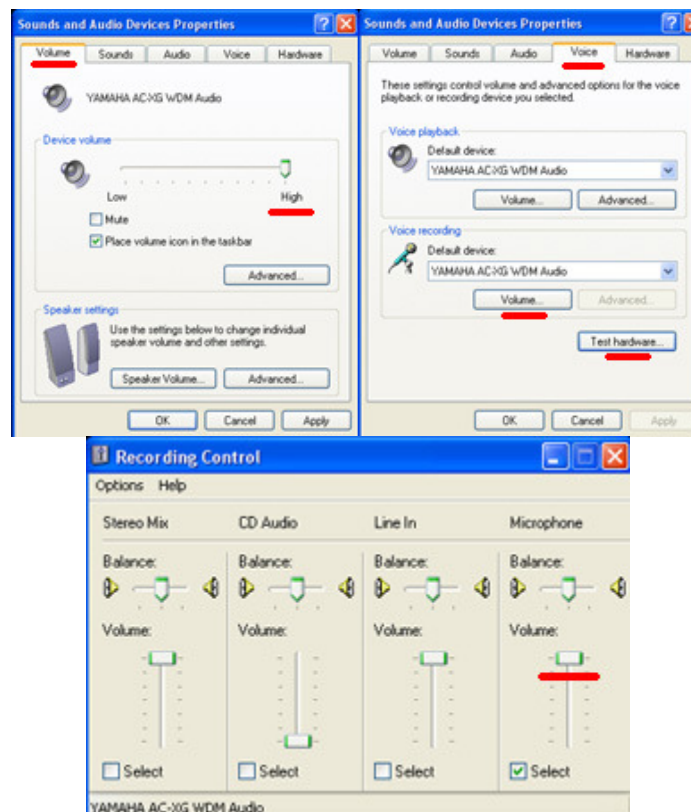
If you are still having problems burning CD-R's try the following in sequential order.

1. Ensure you are running WindowsXP Service Pack 2 (Direct X and NetFrame must be brought up to date)
2. Install any updates from Microsoft.
3. Install any updates from your hardware manufacturer.
4. Update any device drivers for your CD-Burner.
5. Remove any other CD-Burning software, especially **InCD**.
6. Replace your CD-Burner with a USB CD-Burner unit

### Connecting Microphone

Plug microphone into microphone jack usually depicted by photo of microphone

### Adjusting Computer Audio and Microphone levels

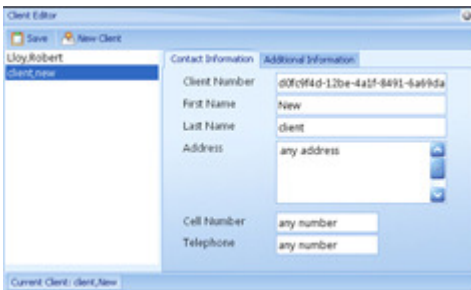


- Open **Control Panel** on computer.
- **Select Sound and Audio Devices. Adjust Device volume to High.** We need maximum audio output delivered from the computer to the coil amplifier.
- Click on **Voice tab**, then, Voice Recording **Volume**. When screen opens adjust **Microphone gain to Maximum**. Use **Test Hardware** to make sure everything is working correctly.
- Use the controls on the sub-woofer system to adjust the audio listening level.



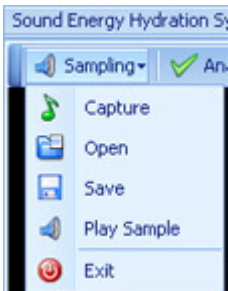
We highly recommend purchasing a zero gravity chair for your clients. Recline the chair all the way and place the Imprinting coil on their navel. The chair is a HoMedics Antigravity Recliner Item# 661566 and was purchased from Costco for \$199. Do not use the massage feature during the voice analysis session

### Procedure for Voice Analysis Program



#### 1. Select Client editor

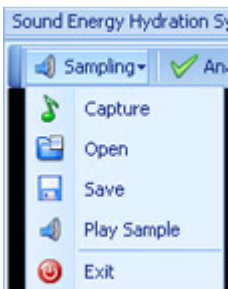
- Click New Client if it is not highlighted
- Enter client information
- Click Save, This information is automatically transferred to the personal printout.



#### 2. Select Sampling Menu

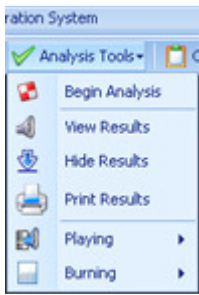
- Select Capture, this allows the operator to take a 15 second voice sample where the client repeats the simple vowel sounds of Bay Be Bye Bo Boo, Hay He Hi Ho Hoo. These sounds, while silly, activate both hemispheres of the brain and bring about a happy voice sample. Locating the stress and strains that prevent ones happiness will produce the greatest changes.
- Our voice Recording Wizard appears. We use this simple wizard to record, playback and select the voice sample for analysis. Our special proprietary algorithms allows the operator to examine 147 decimal points of resolution, over 11 million bits of information.
- Hold microphone horizontal, 2-3 inches away and begin repeating Bay Be Bye Bo Boo, Hay He Hi Ho Who. Click Record as the client repeats these sounds.
- Click Play to listen to the sample. Click Record/Play feature until happy with sample.
- Click OK

**NOTE: Always leave microphone switch on** and let sampling wizard control the recording of the voice sample.



#### 3. Select Sampling Menu

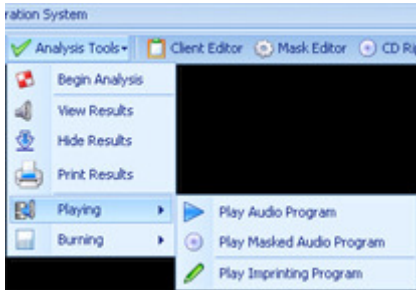
- Select Save
- Samples menu appears
- Enter File Name
- Click Save



#### 4. Select Analysis Tools Menu

- Select Begin Analysis, The program will automatically process the audio voice information using our FFT and run it through our various proprietary procedures.
- **Click OK**, when Analysis Generation Complete wizard appears

**5. VAHS Pro owners place a bottle of VAHS Imprinting concentrate on the Quartz crystal bowl.** This bottle will be imprinted with their personal frequencies while their audio program is playing. **Now, have the client lay back, relax and hold the external coil containing the Inert Gas Device while the audio program plays. Make sure they place the LED Pad in their navel.** Always prepare the first gallon of imprinting concentrate for your client to enjoy. At the end of the session mix 2 ounces with 1 gallon of distilled water. Shake well, after 5 minutes pour them a glass. Remind them to mix 3 more gallons at home.



#### 6. Select Analysis Tools Menu

- Go to Playing
- Select Play Audio Program, by selecting this program your client will be automatically taken through the complete process. The first 3 tones play for 1 minute followed with 10 seconds of silence. While relaxing in a zero gravity chair hold the imprinting coil over the navel. Have the client close their eyes and tone these first three sounds only. This step gets the client involved in their process. These tones are played at their actual frequency and most people find them very exhausting. After they have finished playing have the client, stop toning, relax and enjoy the rest of the journey. Everything is automatic.

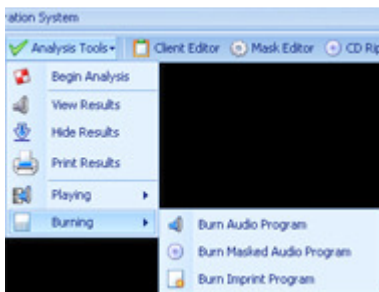
#### Procedure for printing Screen Displays



#### 7. Select Analysis Tools Menu

- Select View Results, by selecting this feature you can view the different screen displays.
- Select Print Results, by selecting this feature you can print the different screen displays..

#### Procedure for Burning Clients CD



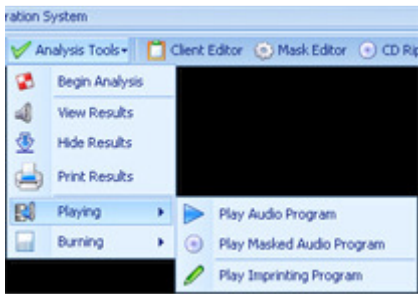
#### Select Analysis Tools Menu

- Place proper CD into CD burner before starting the VAHS program.
- Go to Burning
- Select "Burn Masked Audio Program" (don't forget to select mask) this is the best choice for home use. It provides full brain stimulation with both beta and alpha, theta frequencies. or select "Burn Audio program" (records original voice audio program in alpha, theta without beta audio mask)
- Select CD burner
- Click option for drawer to open when completed
- Select OK, previous voice analysis program will be copied directly to CD for home use.

There can only be a couple of problems when you click on the burner and the drop down menu is blank.

1. You did not put a CD-R in the CD drive before starting the program so the burner is not recognized.
  2. A common problem is not using a proper or quality CD-R. We have customer pre-labeled, blank, high quality empowerment CD-R's available on [vahsworld.com](http://vahsworld.com)
  3. Your CD burner need's to be adjusted, drawer problem or the CD-R is not being inserted properly in the drawer, the "Photo Eye" needs to be cleaned. Your CD burner driver needs to be updated. Go on-line and check for newer drivers for your CD burner and controller.
- Note: CD burners on laptops have light flimsy drawers and have always been a source of problems. Many computer manufactures have been known to install many different models in production runs due to supply and demand.

#### Procedure for Imprinting Clients Personalized Water

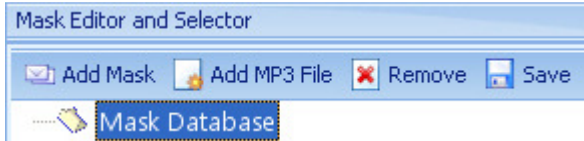


### Select Analysis Tools Menu

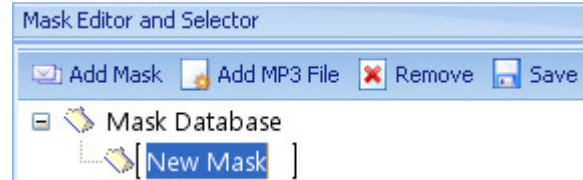
- Download voice sample
- Place 8oz bottle of VAHS Imprinting Concentrate on top of Internal Imprinting Coil. Sit bottle on top of the Optical quality quartz crystal
- Go to Playing
- Select Play Audio Program, when program stops process is complete

### Our Masking Program / Creating your first MASK

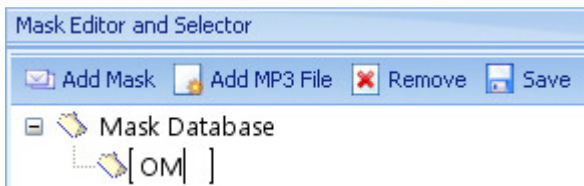
You must create your first mask. Our masks use the MP3 format to create sounds or music that you can layer over the lower alpha, theta, delta personal voice frequencies.



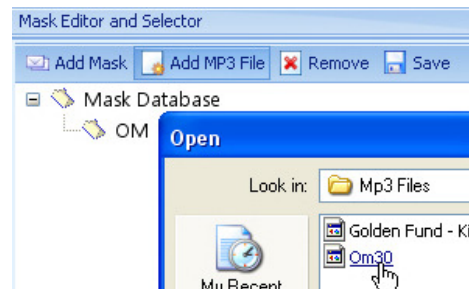
- Select Mask Editor and Selector



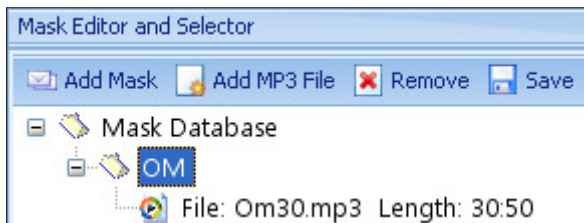
- Select ADD MASK



- Enter name for MASK "OM"
- Select ADD MP3 FILE



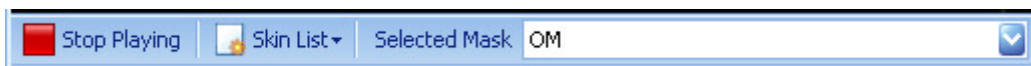
- Look for Om30 in MP3 selection



- Highlight new mask file OM
- Select SAVE



- Go to SELECTED MASK
- Select the MASK "OM" so it is defaulted. You can create as many MASKS as you want. Whenever you select the menu option PLAY MASKED AUDIO PROGRAM the highlighted mask program in SELECTED MASK will be used.



### Procedure for Creating a Mask from Clients favorite CD

Create a custom CD music program that plays along with alpha, theta, delta brain frequencies. Client brings their favorite music CD to the session. We have found that the client responds more openly and lovingly when they listen to a CD with their favorite music playing over their low frequency tones. Music is the doorway to the emotional body.

#### Part I CD Ripper Instructions converting CDDA audio to MP3 format

- Insert client CD into Drive. After a few seconds Windows message appears
- "What do you want Windows to do?"
- Select "Cancel" by left clicking once. This prevents CD from automatically playing

### Highlight and Left click the “CD Ripper” Menu

- CD Ripping Editor Appears with 4 choices, Refresh, Rip to MP3, Rip All and Base Name
- Type the designated name of the CD that you are ripping in the Base Name Box. Keep the name simple to avoid complications. If you do not place a name in the “Base Name” box, the CD will not be ripped.
- Left click “Refresh”.
- Box (+) D:\) appears. Left click the (+) icon.
- The plus (+) icon transforms to a minus (–) icon.
- The minus (-) icon opens up the menu tree indicating that you are ready to begin. The tracks which compose the CD will now appear.
- Select “Rip All” with a single left click. This automatically begins the ripping process. A percentage sign will indicate the progression of the CD ripping process. You must be patient during this part of the process as it will automatically move from one track to the next in succession. Do not interrupt this process. The percentage calculation will continue to appear to inform you of the conversion process.
- When the message: “Conversion to MP3 complete!” the CD has been converted to MP3 files
- Click “OK”. The tracks which you have just ripped appear. Close the window by left clicking once the small x in the upper right hand of the box. This will close the CD Ripping Editor.

### PART II: Creating a Mask from the MP3 Files

Please review our masking program and screen shots.

### Highlight and Left click the “Mask Editor” Menu

- The “Mask Editor and Selector” menu will appear.
- Click “Add Mask”
- A (New Mask) file will appear highlighted in flashing brackets at the bottom of the list.
- Begin typing the name of the new MP3 file. The “New Mask” heading will automatically disappear to be replaced by your new file identification name. For identification purposes it is preferable to select the same name as the MP3 file name previously designated.
- The new name will appear in brackets.
- Left click on the file icon that appears on the left. This will automatically highlight the new name. When the file is highlighted you will automatically direct the MP3 files in the highlighted/designated folder.

Left click “Add MP3 file” heading while designated folder is highlighted.

- The complete MP3 file menu folder appears.
- Scroll through the archives by clicking on the arrows on each side of the program. The MP3 files are arranged first numerically and then alphabetically in order. If you use your cursor to highlight the 3<sup>rd</sup> letter of each file, the details of the MP3 file will appear including artist, album and segment length.
- Select by highlighting each folder or to select multiple folders, left click the key, hold **SHIFT KEY** down while continuing to highlight all pertinent folders.
- Click left, release, to highlight first, then press the Shift Key. The highlighted file name(s) will appear in the box.
- Click “OPEN”. This returns you to the Mask Editor and Selector. The selected MP3 file which you just transferred will appear highlighted at the bottom of the list.
- Click the plus (+) icon to open and review the files just transferred and their approximate duration.
- While burning the CD click “Play” in lower left to listen.
- While burning CD message appears “Burning data blocks to disk” This will take a few minutes.

### SAVING THE NEW MASK PROGRAM: FINAL AND MOST IMPORTANT STEP

- While the title of MP3 is highlighted, left click SAVE in upper bar. This feature will automatically place the various MP3 masks into the Selected Mask file enabling you to apply it with the audio tones.
- To check your work, click “Selected Mask Arrow” at the lower left corner of the program. Scroll down. The MP3 title you just created will automatically be added at the bottom of the MASK LIST.
- Highlight this file by left clicking it. The title will appear in the Selected Mask window and the program will default to the mask you have highlighted.

### Notes:

When creating a Masked Program, please be aware of the time each MP3 segment plays. The basic VAHS imprinting program runs for 22 minutes. With that in mind you do not want our MP3 mask program to run over 25 or 30 minutes. The Play Masked Audio Program or Burn Masked Audio Program will continue running until the final audio finishes playing. We have discovered that some of the preinstalled MP3 masks may be defective. If you create a program and it stops playing before the program is complete please send us an email so we can remove it from future installs. To date we know that **Secret Forrest** is defective.

Please check on-line help section for the latest operating instructions.

### Vowel Chart

- Use normal speaking voice.
- Do not take a big breath before hand.
- Repeat until sample wizard stops.
- Do not stop between the vowels, read it like a complete sentence. Encourages both left and right brain activity.

Bay, Bee, Bye, Bo, Boo, Hay, Hee, Hi, Hoe, Hoo

<b>Ba (Bay)</b>	<b>Ha (Hay)</b>
<b>Be (Bee)</b>	<b>He (Hee)</b>
<b>Bi (Bye)</b>	<b>Hi (High)</b>
<b>Bo (Bo)</b>	<b>Ho (Hoe)</b>
<b>Bu (Boo)</b>	<b>Hu (Hoo)</b>

### Overview of SER Voice Analysis and the Analysis segments

We use the basic vowel sounds with a “B” and “H” in front of them in order to get a better left/right brain activity. In every language the vowel sounds are simple and easy to say. In most cases the client relaxes and might even laugh at how silly it is to repeat them over and over again. This is what we are after. If we could get genuine laughter to analyze, the client would have a great experience, and we would achieve the best results. Imagine removing the energetic stresses that has taken away their joy. In every case I have deliberately done something to cause my clients to laugh while recording the vowel sounds.

### Understanding the process and analysis segments

Analysis segments 1 through 12 are based upon the actual weakness and strengths we determined from the voice sample using Sound Energy Research’s proprietary algorithms. Analysis segments 13 to 19 are octave wave frequency pairs from the Periodic Table of Elements. We used our proprietary frequency information derived from analysis segments 4 through 12 to determine which pair of elements to play.

The first 3 analysis segments are taken from the complete linear voice sample. They are based upon maximum amplitude (power) in the voice. Each of these tones is played for 1 minute at their actual frequency in pure Sine waves (no harmonics). This is the only step that we ask the client to participate in. We want them to repeat back audibly the tone they are hearing. It is important that they have their eyes closed while doing this process.

Most people will say they cannot do this but you must encourage them. The process sets the stage for them to give permission to themselves to accept the change that will come from the Sound Energy process. In every case if you do a simple muscle test on a person and ask them if they would like to get better they will say, “YES” but their body will test “NO”. This simple attempt to replicate the tone they are hearing will produce brainwave coherence and usually you will see “RAPID EYE MOVEMENT” (REM) occurring.

These first 3 tones are played for 1 minute followed by 10 seconds of silence. Most people will find it exhausting to repeat these first 3 tones for 1 minute. We take advantage of a natural phenomenon that occurs when you stimulation for 1 minute followed by 10 seconds of silence. This process encourages the awareness, which is now lively but undirected to seek the greatest source of charm. In other words you will automatically seek out and experience deeper levels of consciousness.

Keep in mind that during our Sound Energy process we use the voice sample to guide the client to deeper levels of their own consciousness. When the mind settles down, the body also settles down, and the release of deeply stored stresses occur. These are deep stresses that are not normally released even during regular sleep.

After the first 3 tones are completed advise the client to just relax, keep their eyes closed and enjoy the inner journey. There is nothing further for them to do. All the following analysis segments will be lowered down and played in the Alpha, Theta, and Delta levels using Saw tooth Waveforms with Sine wave modulation. Saw tooth waveforms are the only waveforms that produce both odd and even harmonics.

Analysis segments 4 through 7 are based upon an energy triangle that is created using the information derived from layering 5 octaves on top of each other. We then break down the individual 12 notes within the octave and determine the strongest consistent amplitude within that note (analysis segment 4) then the strongest consistent amplitude within the low note (analysis segment 5) and finally the strongest consistent amplitude within the lowest note (analysis segment 6).

We play analysis segments 4, 5 and 6 for 2 minutes followed by 10 seconds of silence. Analysis segment 7 is the same as analysis segment 4 but this time it is only played for 1 minute. We have always found a direct relationship within the element kingdom that exists between the weakness and strength when examining the voice sample. After stimulating these systems we close the process by returning to the strongest note, analysis segment 4 again. In every case this dominant strong note when first played was very enjoyable because their energy was focused on it.

Now it is not as charming as it was in the beginning simply because we have stimulated the two lowest energy points through the principles of resonance. In other words the dominant energy of analysis segment 4 had a direct influence on suppressing the energy in analysis segments 5 and 6.

The frequency from analysis segment 4 was used to select the element pair played in analysis segment 13. The frequency from analysis segment 5 was used to select the element pair played in analysis segment 14 and the frequency from analysis segment 6 was used to select the element pair played in analysis segment 15.

Analysis segments 8, 9 and 10 are in fact the same frequencies played for 1 minute followed by 10 seconds of silence. These three analysis segments are based upon information gathered from the fundamental first or prime octave that the client normally speaks in. The harmonics that follow in their speech pattern are based upon this fundamental octave.

We used this fundamental octave to determine the strongest consistent amplitude within the highest note and the lowest consistent amplitude within the lowest note. We then play these two frequencies together three times using the principles of stimulation and rest to set the stage for the balancing frequency analysis segment 11 to be introduced. Analysis segment 8 was used to determine the high and low element pairs that are played in analysis segments 16 and 17.

Analysis segment 11 is played for 2.5 minutes and represents the balancing or average frequency from segment 8. Analysis segment 11 was used to determine the element pair that was played in analysis segment 18.

Analysis segment 12 is again based upon the complete linear display but this time we used the information to create a weighted average based upon the strongest consistent amplitudes from all the octaves. This frequency is played for 2 minutes followed by 10 seconds of silence. Analysis segment 12 was used to determine the element pair that is played in analysis segment 19.

Final analysis segment 20 is a special healing frequency that soothes body and mind and a great way to end the inner journey.

## **In conclusion**

Analysis segments 1 to 12 deal with frequencies taken directly from the clients voice sample. Their weakness and strengths were used to determine, which pairs of elements needed to be introduced from the Periodic Table of Elements to stimulate and restore balance. To date technology does not exist that allows anyone to play an actual element frequency. We do however; have a special algorithm that is based upon the resonant frequency of an atom in saline solution at body temperature. This special algorithm has enabled us to stimulate the appropriate systems responsible for the selected elements. Over the years, hair, blood or urine analysis has been spot on with the elements selected from the Sound Energy Research Voice Frequency Analysis.

## **Imprinting Water Program**

1. Analysis segment 4  
strongest consistent frequency amplitude note within the 5 octave overlay
2. Analysis segment 5  
2<sup>nd</sup> consistent, weak amplitude within the 5 octave overlay
3. Analysis segment 6  
1<sup>st</sup> consistent, weakest amplitude within the 5 octave overlay

The first 3 segments are from the five octave overlay where we define the strongest consistent note (segment 4) and select the strongest consistent frequency amplitude note. We also use this frequency to determine the pair of elements we play in (segment 13).

We then select and play the 2<sup>nd</sup> lowest weakest note (segment 5). We also use this frequency to determine the pair of elements we play in (segment 14). We then select and play the lowest weakest note (segment 6). We also use this frequency to determine the pair of elements we play in (segment 15).

4. Analysis segment 8  
We use the fundamental (first octave) to determine the strongest consistent amplitude within the highest (strongest) note and the lowest consistent amplitude within the lowest (weakest) note.  
  
We use the strongest note from this selection to determine the pair of elements we play in (segment 16). We use the weakest note from this selection to determine the pair of elements we play in (segment 17).
5. Analysis segment 11  
We use the high and low frequency from (segment 8) to determine the average or balancing frequency. We use this balancing frequency to determine the element pair that we play in (segment 18).

6. Analysis segment 13    Element Pair from Segment 4 step 1
7. Analysis segment 14    Element Pair from Segment 5 step 2
8. Analysis segment 15    Element Pair from Segment 6 step 3

- 9. Analysis segment 16 Element Pair from Segment 8 step 4
- 10. Analysis segment 17 Element Pair from Segment 8 step 4
- 11. Analysis segment 18 Element Pair from Segment 11 step 5

We play each of these 11 segments for 2 minutes each (22 minutes to imprint water) The program play's 5 personal frequencies and 6 element pairs based upon their personal frequencies.

## **Our Software Approach**

### **Sampling resolution:**

Our application takes audio samples at a rate of 44100 samples per second with an amplitude resolution of 16 bits giving 65536 discrete amplitude steps per sample. This full CD quality sampling rate ensures that all available frequency and amplitude information in the voice is collected and analyzed. Sampling at this rate results in a data set that is able to represent frequency information where the Nyquist frequency is 22050 kHz, well above the range of human speech.

### **Analysis**

Our application applies a standard Fast Fourier Transform to the mathematical representation of the voice sample data to convert the information in the time domain as it is represented by the sample data collected from the user to a data structure representing the same information in the frequency domain. This is an industry standard analysis function used by all the spectrum analysis tools available today.

We supplement the utility and resolution of the FFT (Fast Fourier Transform) by the use of a specialized and custom arithmetical mathematics library that allows for a far greater degree of resolution than currently available in commercial math libraries. Our application also applies a variant of the FFT algorithm to the input data called the Goertzel Transform. The Goertzel Transform is mathematically related to the FFT but acts on only a single frequency, allowing us to apply a different algorithm to the same data and increasing again the accuracy of our analysis. The combination of these two algorithms is unique to our approach and to this writer's knowledge is not used commercially in any other product.

Both the FFT algorithm and Goertzel algorithm we have developed are modified to work against an intermediate data representation that expands and extrapolates the data contained within the voice sample. This is required due to the way that these algorithms work. Both algorithms result in a series of "bins" each bin contains two complex numbers that can be further manipulated mathematically to produce a frequency/intensity value. It is this value that is used subsequently in our analysis algorithm.

Due to mathematical constraints the size and thus resolution of this set of bins is one half of the sample size. An analysis set size of 1024 samples will result in the entire frequency domain map spanning only 512 bins; each of these bins therefore will contain information regarding 43.06 Hz of the frequency spectrum – obviously very low resolution. This is the type of frequency domain analysis used by media player visualizations and by some other spectrum analyzers on the market.

Our application uses a technique whereby the output range is vastly increased resulting in an output structure that contains over 1,099,511,627,776 "bins". These bins are mathematically represented with a proprietary format and method that requires virtually no storage on the sample processing computer. This representation allows us to analyze voice data at a resolution which would otherwise require more storage per sample window than is present on any modern day computer. Our sample resolution results in each bin containing frequency information about .0000002005 (2.005E-8) Hz of the frequency spectrum – as you can see this allows us to more accurately gain information about the frequency spectrum of a sample since each bin represents such a small section of the entire spectrum.

### **Comparison with hardware spectrum analyzers**

It is difficult to compare our mathematical approach to a hardware based approach simply because of the limitations of the hardware based method. Hardware methods have a resolution that depends on the cost and complexity of the circuitry used to generate the frequency domain data. Hardware based approaches use a resonant filter circuit for each bin that filters out intensity information not configured for that filter. For each individual frequency the hardware system analyses there must be a single corresponding circuit. Due to the physical nature of these circuits there is a small upper limit on the number of "bins" that a hardware based system is able to provide whereas our software based system is virtual in nature and relies on mathematical concepts for its representation and analysis allowing us practically unlimited resolution.

### **Synthesis and remapping**

Our synthesis engine is also mathematically based on trigonometric functions that output waveform data directly and allow us to modify and control the phasing of individual components of the synthesized audio. Other applications rely on wavetable synthesis whereby the output waveform is stored in small chunks (the wavetable) and simply copied out to the output data. Wavetable synthesis is faster but results in aliasing of output data as a result of scaling which must take place to generate waveforms of a different frequency than what

is stored in the wavetable. Our method generates a smoother, more natural sounding output. Being able to modify the phasing of component waveforms also allows us to generate with great precision beating of the signals.

It is this beat frequency generation that results in the great impact our system has on the user. By the application of a proprietary algorithm we are able to tune the standing wave generated inside the user's brain. A standing wave is an interference pattern generated when two or more waveforms interact. The important thing about standing waves is that they apply energy to a single spot continuously whereas a regular waveform applies energy only for a brief period during each cycle. Manipulation of the phasing of the component signals allows us to generate standing waves inside the neural circuitry of the user's brain to initiate and sustain immensely powerful change.

However, our system does not simply beat two frequencies; the output waveforms are complex and contain more than simply two waveforms. We generate a complicated interference pattern comprised of more than 6 waveforms and the interference pattern thus generated exhibits dynamic shifting in four dimensional space (the three spatial dimensions and time). By the use of a phasing equation we are able to manipulate the Scalarwave energy construct so that it maximizes the impact on the receiving system – the user.

### **Capturing the Integrity of "Intent"**

We use a short time Fourier transform, which means that we essentially break up the sample into a number of smaller samples which can be analyzed and broken into a sum of sinusoidals. However it is not enough to simply break down the sample into a non-overlapping set of smaller samples, there is some framing that must be done, in our processing the sample windowing is overlapped by 75%. This provides for a smoother scaled output signal without the large number of signal artifacts, which would otherwise be present at the boundaries of our processing sample size. The processing sample size is set at 20ms which provides for a small enough sample so that we can use a Short Time Fourier Transform to generate our scaling data since over 20ms of time the signal will not significantly change in the time domain.

Using the STFT (Short Time Fourier Transform) we generate a Frequency Domain analysis of the signal by generating an array of bin frequency analyses. Our bin frequencies are separated by 48hz to provide maximum resolution in the Frequency Domain. We probe our 20ms sample for each of our bin frequencies resulting in a Magnitude, Frequency and Phase result.

We then do some additional processing to manage phase shifts, which occur due to the fact that our input sample frequencies are not spaced exactly 48Hz apart. When a sample frequency participates in more than one bin frequency probe the phase of the resulting output will shift. We take this into account in our processing by the use of an algorithm designed to take the phase difference in our bin processing output and apply it to the Magnitude of the frequency and shifting the phase of the output to be coherent with the expected phase.

Then it is a simple matter to take the median frequency domain analysis of the input sample and our target frequency and arrive at a scaling factor. This scaling factor is applied to the frequency result of our processing. We then process the results of our processing using an Inverse Fourier Transform which basically takes our processed set of sinusoidal frequencies and regenerates a complex wave form that has been frequency shifted. We use this Alpha - Theta information to imprint the Scalarwave Structured Water and create the cellular message CD

### **Conclusion**

Our system is by far the most accurate and reliable system available. It melds the science of mathematics and sound with the great insight of Robert Lloy of Sound Energy Research to produce a system that mediates change with a precision unprecedented by any other system. Other systems rely on simple monotone frequency generation, low resolution analysis, basic tonal analysis and generally do not offer the complexity required to mediate change within the user. When coupled with imprinting of structured water this system is unbeatable.

Leslie J. Marshall (M.Sc.)

### **CD Listening Instructions for Operators**

Operators should allow 3 days, or a minimum of 72 hours to pass before experiencing another PERSONAL Tone session. It is very important to create a PERSONAL CD of the session and listen to that CD PROGRAM for the next 3 days.

Enjoying your clients Tone Session is also very beneficial for the operator. During their session we may experience frequencies that we have a sympathetic response too.

### **CD Listening Instructions for Clients**

Clients should allow 1 month, or a minimum of 2 weeks to pass before experiencing another PERSONAL Tone session. It is very important to create a PERSONAL MASKED CD of the session and listen to that CD PROGRAM for the next 3 days.

We do this procedure to support and help integrate the new changes initiated from the Tone Session.

The tone-up CD and personally imprinted VAHS Structured Water is designed to support your tone session. The frequencies should never be listened to through earphones. You should play the tones through the largest subwoofer system that you have available in your home or office. It is advisable to align the speakers to face you directly.

Play the tones as loud as is convenient in your home or office. The frequencies will move the air. As the tones are formulated in the alpha theta delta range it is not advisable to listen while driving your car unless you have stopped driving.

It is advisable for maximum growth and support to listen to your frequencies as often as possible. Listening once in the morning and once in the afternoon and/or evening is ideal. This reinforces the change and balancing effect of both your private tone session and the water.

This will support, reinforce and provide energetic adjustment and alignment. It is food for your nervous system. You will find your tones uplifting and reassuring. It will also assist you in increasing creativity and reducing stress. Playing the CD program encourages the creation of standing waves.

#### MASKED CD

By overlaying the tones with your favorite music you are engaging two parts of the brain, emotional and intellectual. This provides the deepest and most profound impact. While the music engages the emotions, the frequencies work on deeper levels of the mind/body connection.

#### PERSONALIZED VAHS EMPOWERMENT WATER

The personalized structured water should be consumed constantly throughout the day to support and reinforce the energetic work of your session. The more you consume the personalized structured water throughout the day, the stronger the reinforcement of the frequency information provided in your tone session. Contrary to some myths of structured water, there is no such thing as drinking too much structured water. This water provides the precise nourishment for your body, mind and soul. It has been imprinted perfectly to support you.



Enjoying Voice Analysis Hydration System (VAHS) Empowerment Therapy

In "The True Power of Water" Dr. Emoto shares his insight regarding the sound-energy therapy system.

PAGE 124...In the past, I measured and examined individuals hado and created water that contained information to correct their disturbed hado. Each person has his/her intrinsic hado; therefore, the information that water should carry differs for every person. As the water was individualized after having found the most suitable hado for the person, it was very effective. I believe we could do the same with sounds.

Dr. Naoki Shibuya, who established Shibuya Brain Surgery Clinic in Shizuoka City, is known for his practice using "Sound-Energy Therapy" Dr. Shibuya earned a doctorate degree through his research in brain tumors and chemotherapy at the graduate school of Nagoya University. Dr. Shibuya, one of the leading neurosurgeons with certifications from the Japan Neurosurgeons with certification from the Japan Neurosurgical Society, worked in the Neurosurgery Department of Nagoya and Tokai Universities.

In 1997, he wrote a book titled Subeteno Inochie: Something Great Karano Okurimono (To all lives: A gift from something great) (Sougohourei Publishing). In this book, he introduced sound-energy therapy as a method to cure various diseases by using the hado of voice. For complete details, please refer to Dr. Shibuya's book. Basically, he explains the therapy to find an individual's hado through his or her voice and have him/her listen to the sound that corrects the disturbances.

The system for his therapy was developed by a Canadian Engineer named Robert Lloy, For thirty-five years, he devoted himself to studying this subject. He had a mathematician develop a mathematical formula to compute atomic frequencies, a sound is found to correct the disturbed frequency. note: (Robert Lloy is not an engineer, he is an inspired inventor).

In early 2003, Mr. Lloy further improved the system and developed software capable of creating a suitable sound after having a person vocalize for fifteen seconds. (Unlike a piece of music that has a melody, this system uses a single sound in various patterns.) This software makes it possible to create sounds much more easily than with the old version. It takes about three minutes to complete.

I tried it myself. As I was exhausted after overseas travel and I was also quite busy writing, I had very stiff shoulders with some pain. After listening to the sound created by the software for 30 minutes, the stiffness in my shoulders suddenly disappeared.

If this new system becomes popular, music therapy would be able to make a quantum leap, because the sound with the most suitable information can be delivered to our individual cells. At my company, we are studying this sound-energy system. As good as the sound-energy system was, we made it better by adding the ability to "SUPER HYDRATE." You can Imprint the modified therapeutic Voice Analysis frequencies into our VAHS Imprinting Water.

We wanted to invite interested parties to become a part of this breakthrough in Energy Medicine Technology. Financing is available to help start your own water based business. Even the late psychic Edgar Casey predicted water cures would become popular in the future. The power of hydration has long been established. As a leader in sound-energy therapy, adding the ability to create "personalized super hydration water" was a natural step.



#### **Blending Instructions for VAHS Imprinting Water:**

For best results we suggest mixing 2 ounces of concentrate to 1 gallon of distilled water.

You must use distilled water. We need to start with water that has been stripped of memory. When you mix distilled water with our concentrate it is converted to structured water. The new structured water produces a perfect geometric crystal structure like the ones above.

Use 1 oz plastic measuring cup, plastic tablespoon, or glass measuring device, Do Not Use Metal, Shake Well. Let mixed solution blend 10 minutes before consuming. Again, you must use distilled water.

#### **Blending Instructions for our Generic Structured Waters:**

Minimum Mixture is: 1 ounce or more of concentrate to 1 gallon of distilled water. You can increase the amount of concentrate to increase the potency of the beverage. For maximum power and best results we suggest mixing 2 ounces of concentrate to 1 gallon of distilled water.

\*Do not store structured water in a cheap plastic container as it will affect the taste. Use PET, Polycarbonate, Acrylic, Lexan or glass. If you live in a warm area, please place the concentrate in the freezer for ½ an hour before mixing. After that, keep the concentrate in the fridge between mixing. Cool temperatures compress the molecular structure.

#### **Taking Hexagonal Scalarwave Structured Water™**

Dehydration is a major problem. Our water super-hydrates and if given a choice should be the only water you drink. We recommend drinking at least 2 gallons per week. Since Hexagonal Scalarwave Structured Water™ tends to liberate energy, it is NOT recommended that you consume structured water™ after 9 PM as it may keep you up.

How well your body replicates cells depends very much on the ingredients it has to do the job with. But even more important is how the ingredients are being carried into the cells. Hexagonal Scalarwave Structured Water™ has the correct geometry to penetrate the membranes of the cells and deliver the ingredients. We encourage you to drink or mix the Hexagonal Scalarwave Structured Water™ with any food, herbal shakes, protein powders, herbs or vitamin supplements etc. to boost the body's ability to absorb the nutrients.

#### **A New Approach to Dis-Ease**

Our approach while different, is directed by the energetic need of the client and does not, at this time, deal directly with a disease but the emotional experience that formed the belief that eventually manifested into the body. It is our belief that how we handle life's experiences, our emotional stability if you will, that is directly related to the mental state and physical health of the individual.

Our mission statement is "To Increase Human Potential." How one increases human potential is directly related to changing one's belief. If, as an example, we feel that we are not worthy of receiving, then we will set in motion events that will prevent us from receiving the very thing that we really want to receive. If, on the other hand, we encounter a deeply moving experience that restores our belief system, that we are truly loved and worthy, then the boundaries are removed and change can take place.

The ego is the incarnating personality as expressed through the physical body. The I or self of any person as thinking, feeling and willing, and distinguishing itself from the selves of others and from objects of thought. The enduring and conscious element that knows experience. Ego is the part of the psychic apparatus that experiences and reacts to the outside world and thus mediates between the primitive drives of the individual and the demands of the social and physical environment. The ego is an aspect of the intellect, a part of the trinity of the mind-intellect-ego.

Everything in our life is controlled by our consciousness. We receive input through the senses and the Ego decides our likes and dislikes. If the body is fatigued, then our decision making is cloudy, our interaction with others is less than desirable and we tend to make mistakes. These mistakes may cause us to feel badly and wish that we were kinder or had behaved better than we did.

Magnify the above statement throughout the years and soon we have developed automatic response programs and behavior patterns that become our reality. These automatic responses begin to encase us and create our belief system. Fatigue, depression, poor health etc. become a way of life for the majority of people. Whatever disease we have manifested into the body is a direct result of how we feel, and what issues we think about. Are our thoughts uplifting or do we find ourselves hashing over events about our daily interactions with others. If our thoughts are negative, and the principle of "like attracts like", holds true, then does it not stand to reason that we will continue to attract this type of energy to ourselves.

### **Breaking the downward spiral**

If we try to pretend that we are happy then that becomes difficult and creates stress. It appears that the change must come from some deeper level to be affective. Otherwise we are simply creating and exchanging one form of stress for another, and stress is stress. The mind deals with emotions, feelings, desires and it gets its information through the senses. The intellect deals with ideas, concepts, notions, beliefs, discrimination etc. and is influenced by the Ego. The Mind, Intellect and Ego interact through experiences. Without making this too complicated it is humanities goal to live a happy and full life and to do this we must act naturally and synergistically with the laws of nature.

Did various events in our lives create our present belief system? The answer is yes. As we have traveled through the corridor of time we have encountered various situations that caused us to form a belief system based upon our conscious understanding at that time. Every time we encounter similar experiences we go into an automatic response based upon stored information and influenced by our present state of health and mental well-being. This in a nut shell is the programming that we carry around with us. Good, bad or otherwise it plays a constant role in our day to day lives.

At this time it does not make any sense to place the blame on our past, that is gone and we did as good as we could. I feel too many people spend too much time dealing with the past instead of living in the "now". Mentally forgive yourself, forgive others and move on. If we would consider that the energy from what we do this day will come back to give us comfort or discomfort in the future through the law of "cause and effect", then perhaps our time would be better spent working for a better future.

If you believe, like I do, that we must make changes in our present belief system. Then the question arises, how do we do it and how do we determine what needs to be changed and in what order do we proceed to make these changes?

As mentioned above the ego distinguishes itself as separate from others and from objects. In the process of evolution it must be kept in harmony and balance and eventually surrender itself to a greater force, that of divine will. It is the ego that fights to defend itself, whether right or wrong it has a need and responds accordingly. Deepak Chopra says invincibility occurs through stability and when we no longer have a need to defend our principles.

Through the process of surrender we begin to perform virtuous deeds in our daily life. We see that we are no longer the doer of these actions. It is as if the body is performing in an automatic mode and we begin the process of witnessing all our actions and deeds. You will see here the fine line that is required, the awareness shifts slightly and the process unfolds naturally. This is the strength of our technology. A transformational technology that provides the energetic balancing that encourages the principles stated above. When peace and harmony is restored spontaneous right action occurs.

It may seem like I have digressed from answering the question about Sound Energy Research Technology and its ability to cure, but that is not the case. We have taken a very scientific approach to the problem and created a possible cure by selecting the energy from the voice as both the guide and the path.

Does the voice express and convey our thoughts, expressions, and beliefs. Does it not express anger as well as love. Does it not comfort and defend its existence. If this is so, then does it not express the emotional, mental, spiritual and physical composition that makes up our individuality. Therefore the energy of the Ego, Mind and Intellect are all represented and expressed through this doorway called the voice. The voice carries the beliefs, the worries, the fears and the loves in all of its expressions. It carries your personality and by this medium you are known. Your voice is your signature, it is personal to you and creates your image in the mind of others.

Sound Energy Technology takes a voice sample, determines its weakness and strengths and lowers these frequencies down into the brain wave frequencies where thought begins. We send the necessary frequencies back to the body through a sub-woofer speaker system and our Scalarwave Imprinting Coil.

Using the principle of coherence and resonance, where one frequency vibration supports another equal vibration, we are able to create balance. All we are doing is mirroring the bodies energetic needs. The value of this becomes quite obvious. If we can settle down the mind, bringing it to greater coherence through the balancing of the different hemispheres of the brain then the body will settle down to deeper levels of rest which in turn will support the mind and encourage it to become more orderly which causes the body to go to even deeper levels of rest and so on and so on.

This balancing/rest process sets the stage for the body to do what it has been born and bred to do and that is to heal itself. The deeper the levels of rest that we experience the greater the levels of stress released from the nervous system. This process gives birth to a feeling of well being and feeling good is the key to change. When we are at peace with ourselves we act or react with more love and compassion. We spontaneously and naturally begin to establish a new code of conduct that is better for us and our environment.

When healing takes place at this deep level any number of problems that existed in the body slowly begin to disappear. The voice frequencies determine the need and the energetic order to follow. We have witnessed instant changes while others took longer to deal with. But then, we have been supporting some habits longer than others. Our programs effectiveness can also be influenced by the intent of the person taking the voice analysis. If he or she does not want to change then we do not have the power to over ride their free will.

We use a particular set of neutral vowel sounds during the test to determine the energetic need of the body. We try to get the client to be as natural and innocent as possible when reciting the vowels and encourage any type of natural laughter while doing the process. It appears that the greatest healing experience occurs when we are able to analyze someone's happy notes. Perhaps the stress and strain of daily living has over shadowed the happy child like qualities we all have deep inside.

The previous information makes it sound so easy that everyone should be beating a path to my door, but this is not the case. Without fail, everyone has a deep and profound experience when they are first exposed to the technology. It seems that the greater the imbalance the more profound the experience. Many clients simply fall asleep during the process, which is nothing more than the inability to maintain awareness at such deep subtle levels of thought. In any case the client begins to experience levels of rest that are deeper than they would normally experience during deep sleep. This is where major deep routed stresses are released.

After the procedure is finished I hear wonderful stories of their inner journey. We create a CD and personalized water of their frequency tones so they can continue the experience and support the changes at home. It is important to continue to play the support CD and drink the imprinted water.

In the world of unstressing there are two factors at play. One is the movement of energy that takes place from the release of deep routed stress. This can at times recreate symptoms of some long forgotten problem while the other (led by the Ego) tries to talk you out of making any change. For you to make change, the Ego has to give up control. If you understand the relationship between the mind and body you can easily see how the release of some deep routed stress from the nervous system will cause some physical movement in the body. The physical activity in the body will create some mental activity which in turn creates thoughts.

The mind can not have a mood on an abstract base and will choose something within its environment to think about. In most cases the thoughts that are being entertained have nothing to do with the stress that is being released, but actually occurs after the fact. This being the case, one will quickly see that if we are entertaining some reoccurring thoughts, good, bad or otherwise we are wasting energy that we could be using to support the healing process that is going on. If we choose to entertain negative thoughts, or continue to relive some past experience we slow down the cleansing process.

What should we do when we encounter this experience in our healing process? First, let us remind ourselves that we are here on planet Earth to grow and in that growing process we must embrace change. Everything in this relative creation is changing. Change is constant, embrace it with the attitude that something good is happening.

View this process from a detached state as one might view a movie. For those you have not cultured silence of the mind turn your attention to constructive positive thoughts such as reciting a virtue, (I am compassion, etc.), over and over while the healing is taking place. Whenever we find ourselves entertaining a negative event begin reciting another virtue. Reciting different virtues will build a positive force field around you. Slowly begin to control the mind rather than have it control you. Drink plenty of water and allow for extra rest. The healing wall will fade away and you stand ready to take another plunge into the infinite. Soon the bliss of silence will embrace us and freedom is at hand.

Our procedures are based upon scientific principles. That is our strength. Take comfort in the fact that the frequencies you experienced came directly from your voice sample and are your personal tones. Remember the deep profound silence you experienced. Be glad that you are removing those deeply embedded codes that have been influencing your behavior patterns for years.

By repeating this experience and allowing the voice to guide the journey you will be using one of the fastest modalities to develop consciousness. I am often asked how often one should listen to their CD or how long will they have to do this process. We live in an environment that has many conveniences, some of which are not good for the evolution of humanity. I say grab firmly on to anything that is good, integrate it and use techniques that bring peace, stability and balance into our every day life. Let them be the tuning fork, your shelter in the storm as we journey homeward.

Robert Lloy  
President Sound Energy Research